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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------------|----------------------|---------------------|------------------|
| 10/698,035 | 10/30/2003 | Yasunori Onishi | 9319S-000570 | 1179 |
| 27572 7590 03/14/2007 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 | | | EXAMINER | |
| | | | SEMBER, THOMAS M | |
| BLOOMFIELD HILLS, MI 48303 | | | ART UNIT | PAPER NUMBER |
| | | | 2885 | |
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| SHORTENED STATUTORY | Y PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS 03/14/2007 | | РАР | PER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | Application No. | Applicant(s) |
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| Office Action Summary | 10/698,035 | ONISHI ET AL. |
| | Examiner | Art Unit |
| The MAILING DATE of this communication app | Thomas M. Sember | 2 875 2885 |
| Period for Reply | rears on the cover sneet with the c | orrespondence address |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versiling to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |
| Status | | |
| Responsive to communication(s) filed on <u>27 Description</u> This action is FINAL. 2b) This action for allower closed in accordance with the practice under Exercise 1. | action is non-final. nce except for formal matters, pro | |
| Disposition of Claims | | |
| 4) ☐ Claim(s) 11,12,18,34-37,39 and 53-63 is/are per 4a) Of the above claim(s) 39 is/are withdrawn from 50 ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11,12,18,34-37 and 53-63 is/are reject 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ according to a subject of the specification are quest that any objection to the specification are question are qu | rom consideration. cted. r election requirement. r. epted or b) objected to by the fidrawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the fidrawing(s) is objected to by the fidrawing(s) be held in abeyance. | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list | s have been received. s have been received in Application ity documents have been received u (PCT Rule 17.2(a)). | on No ed in this National Stage |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | te |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11-12, 18, 34-37 and 53-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee (U.S. Patent No. 7,034,799). Lee (U.S. Patent No. 7,034,799) discloses a display device comprising: a first display unit 513 having a display area, a second display unit 511 having a display area facing in an opposite direction than the display area of the display unit, an illumination unit 523 disposed between the first display unit and the second display unit illuminating both the first display unit 513 and the second display unit 511 with light. The illumination unit includes a light-guiding member 523 including a first light-emitting surface facing the first display and a second light-emitting surface facing away from the first light emitting surface. An optical sheet 515 disposed at the second light-emitting surface of the illumination unit at a position that is in an overlapping condition with the display area of the first display unit in a nonoverlapping condition with the display area of the second display unit in plan view. A transflector 511e reflects light that previously passed through the first display unit back to the first display unit and reflecting light that previously passed through the second display unit back to the second display unit, the reflected light being used for

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reflective display. The displayis used for portable devices such as PDAs or cellular phones. Therefore a casing encloses the display units.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 10-11, 12, 18, 34-37 and 53-63 are rejected under 35 U.S.C. 102(e) as being anticipated Han et al (US 2003/0103174). Han et al (US 2003/0103174) discloses a display device comprising: a first display unit 2 having a display area, a second display unit 1 having a display area facing in an opposite direction than the display area of the display unit, an illumination unit 3 disposed between the first display unit and the second display unit illuminating both the first display unit 2 and the second display unit 1 with light. The illumination unit includes a light-guiding member 3 including a first light-emitting surface facing the first display and a second light-emitting surface facing away from the first light emitting surface. An optical sheet 4 disposed at the second light-emitting surface of the illumination unit at a position that is in an overlapping condition with the display area of the first display unit 2 in a non-overlapping condition with the display area of the second display unit 1 in plan view. A transflector 5 reflects light that previously passed through the first display unit back to the first

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display unit and reflecting light that previously passed through the second display unit back to the second display unit, the reflected light being used for reflective display. The display is used for portable devices such as PDAs or cellular phones. Therefore a casing encloses the display units.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 59 is rejected under 35 U.S.C. 103(a) as being unpatentable over (Lee or Han et al) in view of Konomi. (Lee or Han et al) discloses the claimed invention except for the teaching the casing is a reflective material such as a white reflector. Konomi teaches a reflective housing for double-sided display. It would have been obvious to one skilled in the art at the time the invention was made to modify the casing of (Lee or Han et al) to be reflective such as a white reflector in order to efficiently capture light and transit it from both displays.

Response to Arguments

5. Applicant's arguments filed 12/27/06 have been fully considered but they are not persuasive. The applicant argues that the prior rat of record fails to teach an optical

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sheet as claimed by applicant. The examiner disagrees. As broadly claimed Han et al

and Lee teach optical sheets (4 and 515).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Sember whose telephone number is 571-272-2381. The examiner can normally be reached on M-F 8 A.M- 5.30 p.m. first

Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

「homas∥M Şember

THOMAS M. SEMBER
PRIMARY PATENT EXAMINER

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